

 PALM IntranetApplication
Number

IDS Flag Clearance for Application 09901013

 IDS
Information

Content	Mailroom Date	Entry Number	IDS Review	Last Modified	Reviewer
M844	2001-07-10	5	Y <input checked="" type="checkbox"/>	2001-08-13 11:20:29.0	EXPO-CONV
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EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	158012	robot or robotic	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 20:02
L2	254	I1 and ultrasound adj2 transducer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 20:04
L3	105	I2 and (chamber or chambers)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 20:06
L4	77	I3 and tissue	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/17 20:06

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s robot or robotic

2381 ROBOT

2232 ROBOTIC

L1 4176 ROBOT OR ROBOTIC

=> s l1 and ultrasound(w)transducer

76720 ULTRASOUND

23981 TRANSDUCER

186 ULTRASOUND(W) TRANSDUCER

L2 0 L1 AND ULTRASOUND(W) TRANSDUCER

=> s l1 and ultrasound

76720 ULTRASOUND

L3 23 L1 AND ULTRASOUND

=> s l3 and tissue

691610 TISSUE

L4 1 L3 AND TISSUE

=> d ti ab

L4 ANSWER 1 OF 1 CA COPYRIGHT 2007 ACS on STN

TI Methods and systems for applying multi-mode energy to biological samples

AB A system for applying energy to cells so as to elicit the formation of pores, to enhance transfection, and/or cell transformation, includes a computer, a plurality of acoustic probes for controllably applying acoustic energy to batches of cells, and a robot operatively for effecting relative movement between the probes and the batches of cells. Preferably, the acoustic energy comprises ultrasonic energy, which is applied in combination with optical or elec. energy to enhance the formation of pores in surface membranes of the cells.

=> d all

L4 ANSWER 1 OF 1 CA COPYRIGHT 2007 ACS on STN
AN 139:273261 CA
ED Entered STN: 23 Oct 2003
TI Methods and systems for applying multi-mode energy to biological samples
IN Unger, Evan C.; Wu, Yunqiu; McCreery, Thomas
PA Imarx Therapeutics, Inc., USA
SO U.S., 20 pp., Division of U.S. Ser. No. 291,502, abandoned.
CODEN: USXXAM

DT Patent

LA English

IC ICM C12N013-00

ICS C12N015-87

INCL 435173500; 435173100; 435173600; 435461000; 204450000; 204157620;
204600000

CC 9-16 (Biochemical Methods)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6627421	B1	20030930	US 2001-827583	20010405
PRAI	US 1999-291502	B3	19990413		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 6627421	ICM	C12N013-00
	ICS	C12N015-87
	INCL	435173500; 435173100; 435173600; 435461000; 204450000; 204157620; 204600000
	IPCI	C12N0013-00 [ICM,7]; C12N0015-87 [ICS,7]
	IPCR	C12N0015-87 [I,C*]; C12N0015-87 [I,A]
	NCL	435/173.500; 204/157.620; 204/450.000; 204/600.000; 435/173.100; 435/173.600; 435/461.000
	ECLA	C12N015/87

AB A system for applying energy to cells so as to elicit the formation of pores, to enhance transfection, and/or cell transformation, includes a computer, a plurality of acoustic probes for controllably applying acoustic energy to batches of cells, and a robot operatively for effecting relative movement between the probes and the batches of cells. Preferably, the acoustic energy comprises ultrasonic energy, which is applied in combination with optical or elec. energy to enhance the formation of pores in surface membranes of the cells.

ST system multi energy biol

IT Wave

(Continuous or pulsed; methods and systems for applying multi-mode energy to biol. samples)

IT Apparatus

(Endoscopic sonoelectroporation; methods and systems for applying multi-mode energy to biol. samples)

IT Energy

(Multi-mode; methods and systems for applying multi-mode energy to biol. samples)

IT Energy

(Optical; methods and systems for applying multi-mode energy to biol. samples)

IT Organ, animal

(Perfused; methods and systems for applying multi-mode energy to biol. samples)

IT Frequency

(Pulse repetition; methods and systems for applying multi-mode energy to biol. samples)

IT Pore

(Reverse; methods and systems for applying multi-mode energy to biol. samples)

IT Electroporation
Transducers
(Sonoelectroporation; methods and systems for applying multi-mode energy to biol. samples)

IT Animal tissue
(Thick; methods and systems for applying multi-mode energy to biol. samples)

IT Apparatus
(Transcutaneous sonoelectroporation; methods and systems for applying multi-mode energy to biol. samples)

IT Energy
(Ultrasonic; methods and systems for applying multi-mode energy to biol. samples)

IT Animal tissue culture
(Unilamellar; methods and systems for applying multi-mode energy to biol. samples)

IT Acoustic devices
Apparatus
Biological materials
Bioreactors
Body, anatomical
Cell
Cell membrane
Computers
Electric current
Electric energy
Electric field
Electrodes
Energy
Escherichia coli
Frequency
Materials
Plasmids
Pore
Sound and Ultrasound
Transducers
Transformation, genetic
(methods and systems for applying multi-mode energy to biol. samples)

IT Gene expression
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(methods and systems for applying multi-mode energy to biol. samples)

IT Robotics
(robot; methods and systems for applying multi-mode energy to biol. samples)

IT Biological transport
(uptake; methods and systems for applying multi-mode energy to biol. samples)

RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE

- (1) Abela; US 5246437 A 1993
- (2) Anon; WO 9740679 A1 1997 CA
- (3) Eppstein; US 5445611 A 1995
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- (9) Stokes, H; Integrins Mol Microbiol 1989, V3(12), P1669 CA
- (10) Unger; US 5830430 A 1998 CA
- (11) Unger; US 5977538 A 1999 CAPLUS
- (12) Weaver; US 5019034 A 1991
- (13) Weaver, J; J Cell Biochem 1993, V51(4), P426 CA

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